

Title (en)
ALTERNATING-CURRENT FLICKERING LED CHIP

Title (de)
WECHSELSTROMFLACKERNDER LED-CHIP

Title (fr)
PUCE À DEL CLIGNOTANTE À COURANT ALTERNATIF

Publication
EP 4207948 A1 20230705 (EN)

Application
EP 21949856 A 20210902

Priority
• CN 202121621215 U 20210716
• CN 2021116080 W 20210902

Abstract (en)
The present invention discloses an AC twinkling LED chip, comprises a chip substrate, a post-chip rectification negative terminal, a post-chip rectification positive terminal, a first AC input terminal, a second AC input terminal and an LED drive pin, at least one capacitor is parallely connected with the post-chip rectification negative terminal and the post-chip rectification positive terminal, wherein an LED luminescent diode is connected in between the post-chip rectification positive terminal and the LED drive pin. Advantages of the present invention over the prior art are that: in the present invention, by conducting rectification in the ICs, chips can work in AC conditions and drive the LED lights to shine. As it involves high expenses to design capacitors and filters in the ICs, by using the capacitors and the filters outside the LED chips, the LED chips can work in absolute AC conditions.

IPC 8 full level
H05B 45/30 (2020.01); **H05B 45/37** (2020.01)

CPC (source: EP)
H05B 45/30 (2020.01)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4207948 A1 20230705; EP 4207948 A4 20240515; CN 216017212 U 20220311; WO 2023284081 A1 20230119

DOCDB simple family (application)
EP 21949856 A 20210902; CN 2021116080 W 20210902; CN 202121621215 U 20210716